

How to change: Citroen Xsara Picasso front suspension strut – replacement guide

 VIDEO TUTORIAL

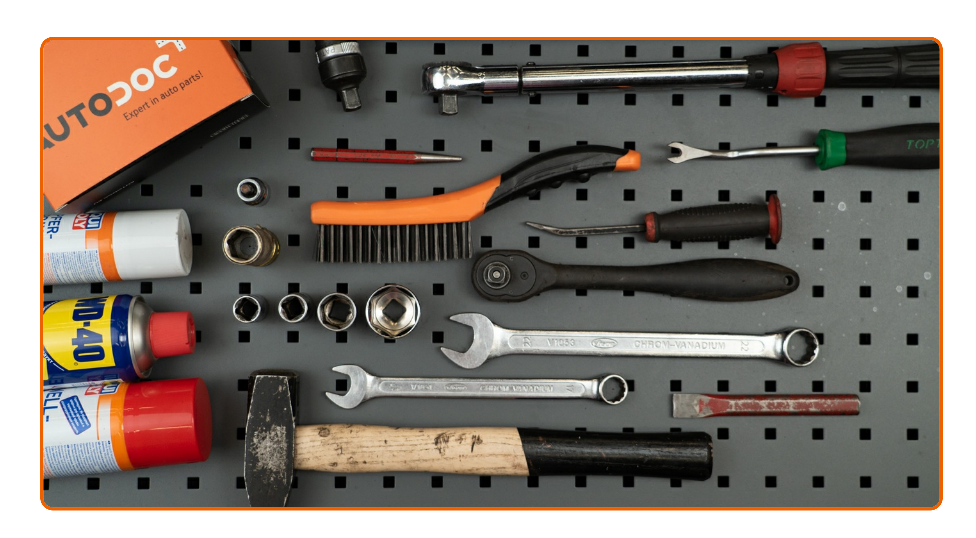
Important!

This replacement procedure can be used for:
CITROËN BERLINGO / BERLINGO FIRST Box (M_) 2.0 HDI 90 (MBRHY, MCRHY), CITROËN BERLINGO / BERLINGO FIRST Box (M_) 2.0 HDI 90 4WD (MBRHY, MCRHY), CITROËN BERLINGO / BERLINGO FIRST MPV (MF_, GJK_, GFK_) 2.0 HDI 90 (MFRHY), CITROËN XSARA PICASSO (N68) 2.0 HDi

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The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – CITROEN XSARA PICASSO. LIST OF THE TOOLS YOU'LL NEED:



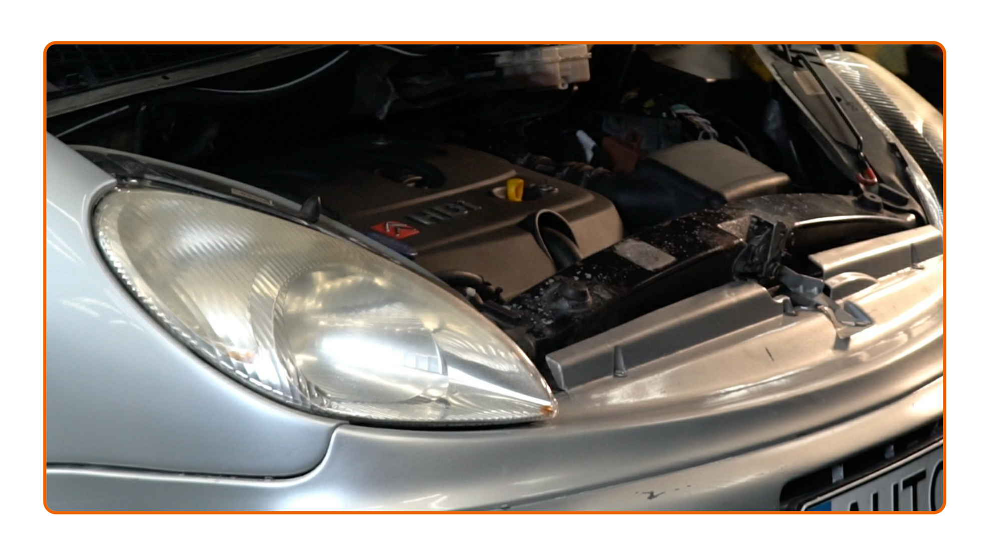
- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Combination spanner #22
- Drive socket # 14
- Drive socket # 16
- Drive socket # 17
- Drive socket # 22
- Drive socket # 32
- HEX bit No.H7.
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Clip removal tool
- Hammer
- Tap wrench
- Pin punch
- Flat chisel
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Replacement: suspension strut – Citroen Xsara Picasso. AUTODOC recommends:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- All work should be done with the engine stopped.

REPLACEMENT: SUSPENSION STRUT – CITROEN XSARA PICASSO. TAKE THE FOLLOWING STEPS:

1



Open the bonnet.

2



Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3



Remove the windscreen wiper arm nut covers. Use a clip removal tool.

4



Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #14.

5



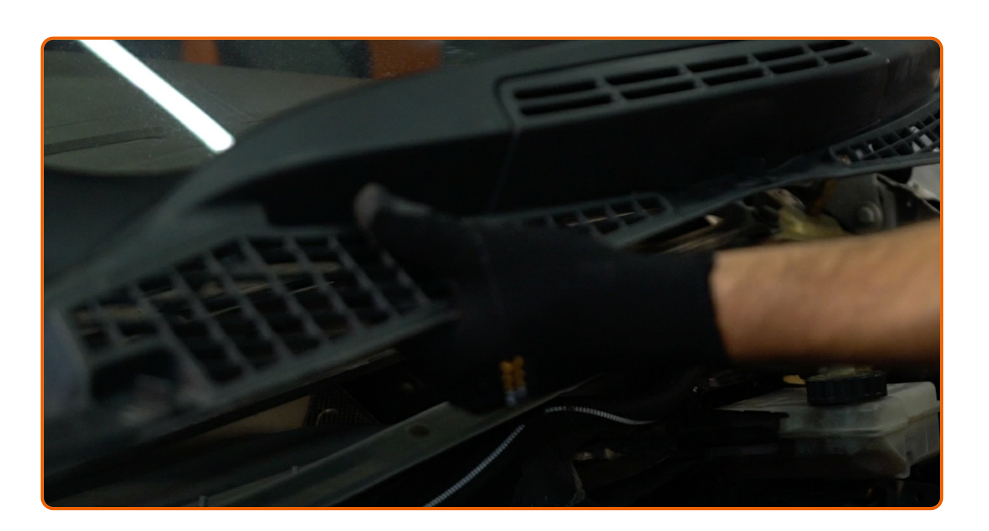
Remove the wiper arms.

6



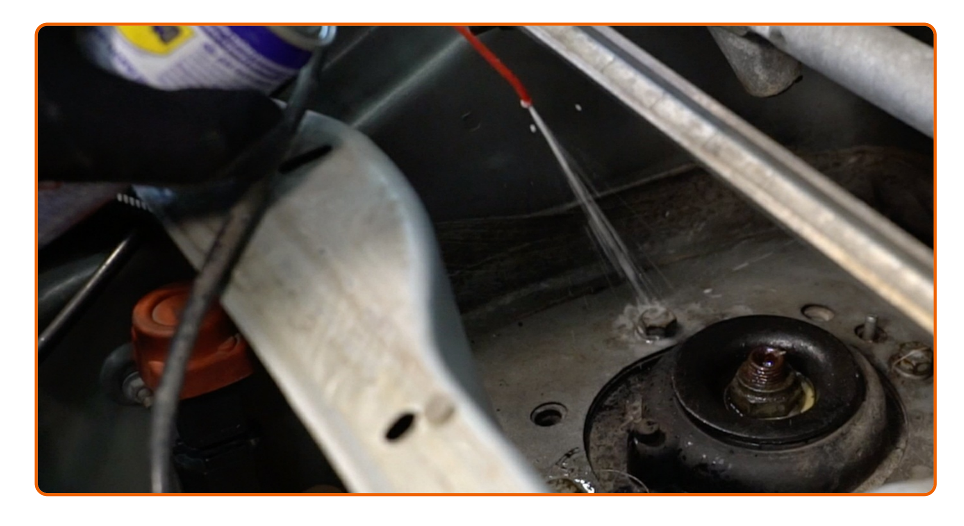
Detach the retainers of the upper part of the microfilter housing.

7



Raise up and remove the cowl grille.

8



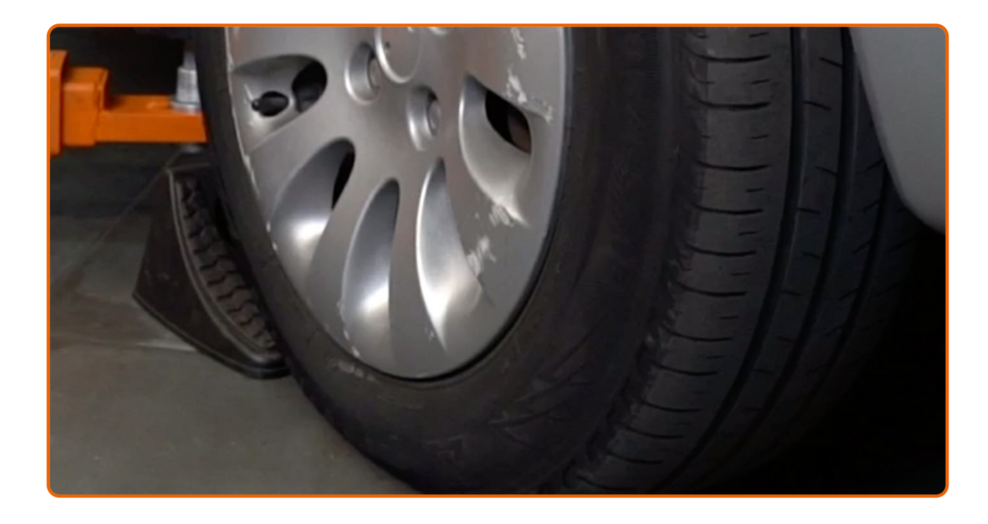
Clean the fasteners of the shock absorber upper mount. Use a wire brush. Use WD-40 spray.

9



Loosen the upper fastener of the shock strut mount. Use a drive socket #14. Use a ratchet wrench.

10



Secure the wheels with chocks.

11



Loosen the wheel mounting bolts. Use wheel impact socket #19.

12



Raise the front of the car and secure on supports.

13



Unscrew the wheel bolts.

Replacement: suspension strut – Citroen Xsara Picasso. Tip:

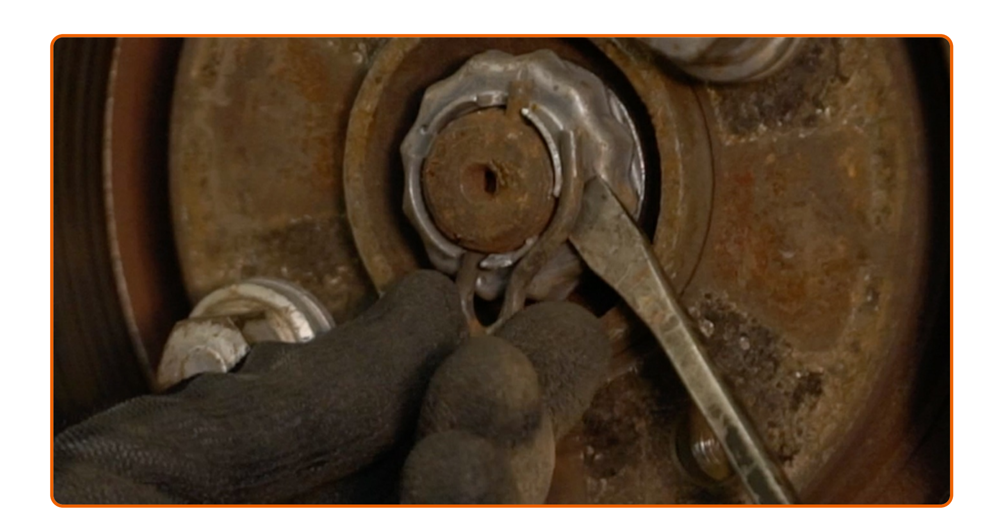
- To avoid injury, hold up the wheel when unscrewing the bolts.

14



Remove the wheel.

15



Remove the axle nut cotter pin. Use a crowbar.



16



Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.

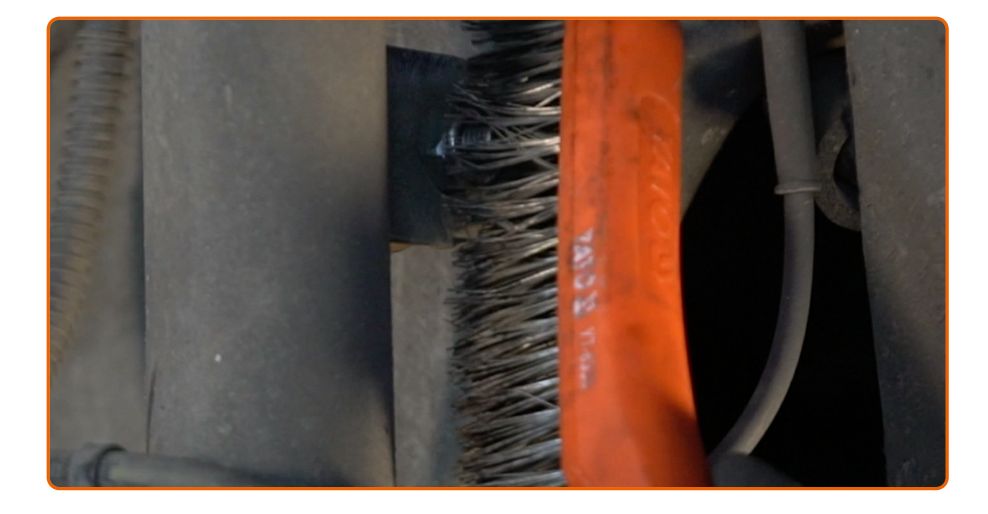
17



Loosen the fastener of the driveshaft. Use a drive socket #32. Use a tap wrench.



18



Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

19



Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17.

20

Remove the stabilizer rod.

21



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

22



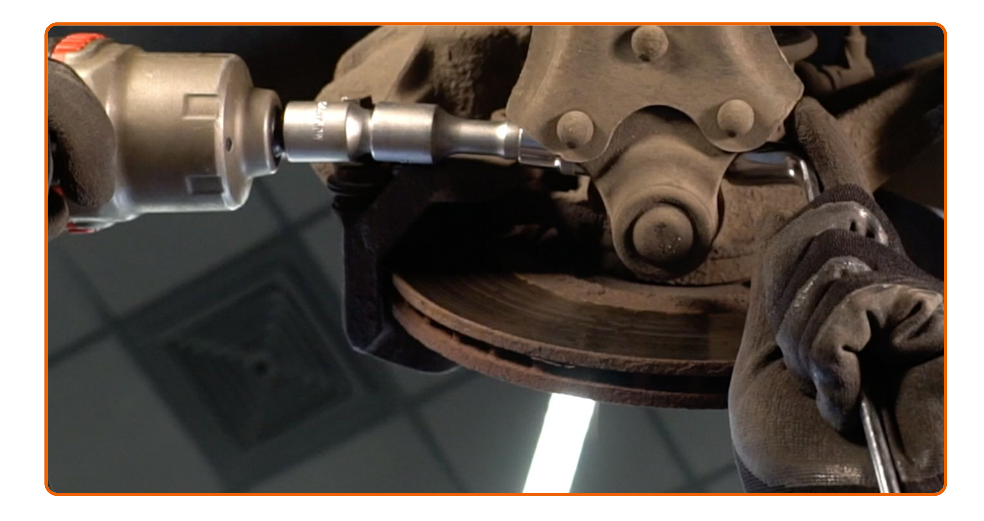
Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #16. Use a tap wrench.

23



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

24



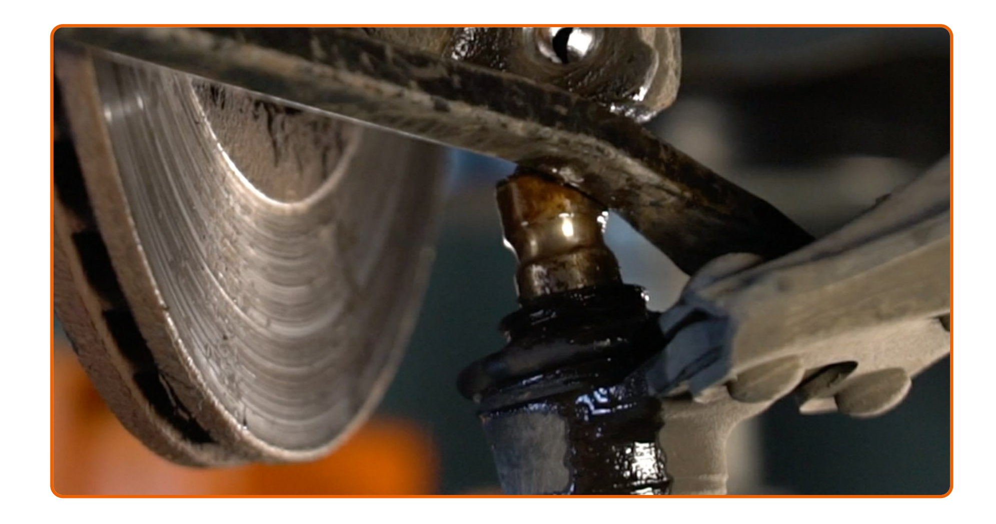
Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #17. Use a combination spanner #17. Use a tap wrench.

25



Remove the fastening bolt. Use a pin punch. Use a hammer.

26



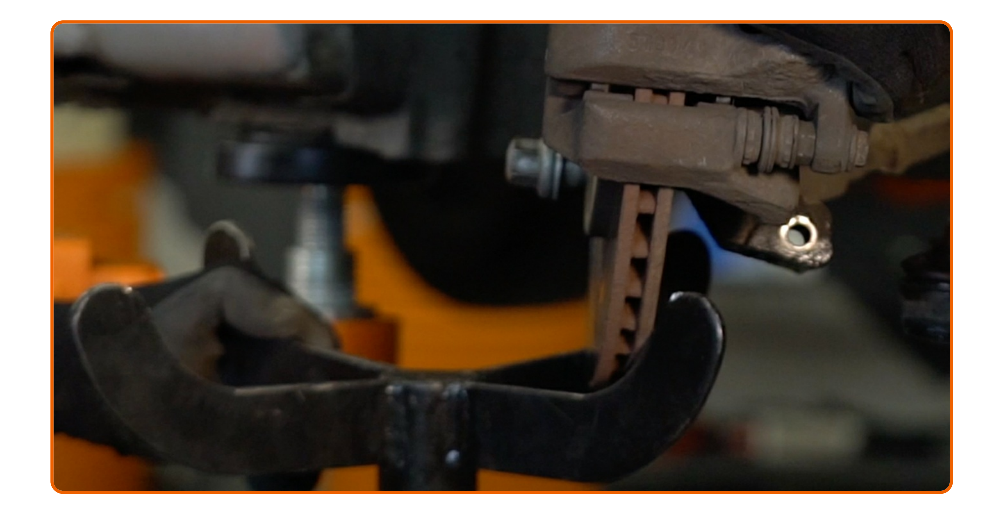
Disconnect the ball joint from the steering knuckle. Use a crowbar.

27



Remove the drive shaft. Use a pin punch. Use a hammer.

28



Prop up the steering knuckle. Use a hydraulic transmission jack.

29

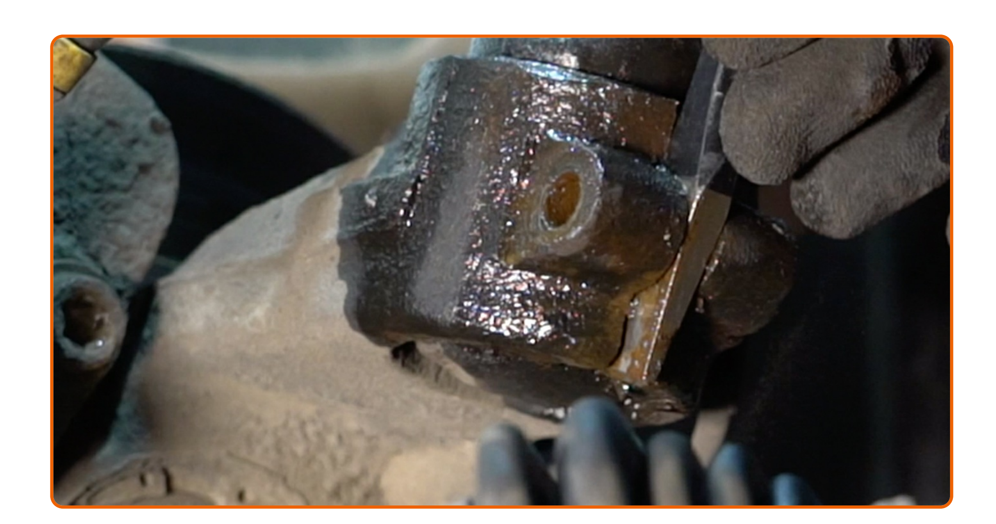
Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

30



Remove the fastening bolt. Use a flat metal-working chisel. Use a hammer.

31



Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

32



Lower the hydraulic transmission jack by 10-15 cm.

AUTODOC recommends:

- Citroen Xsara Picasso – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

33



Disconnect the steering knuckle from the shock absorber strut.

34



Unscrew the top fastening of the shock strut mount. Use a drive socket #14.

Replacement: suspension strut – Citroen Xsara Picasso. Tip from AUTODOC experts:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

35



Remove the suspension strut.

36



Set the shock absorber strut on the spring compressor tool.

Replacement: suspension strut – Citroen Xsara Picasso. Tip from AUTODOC:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

37



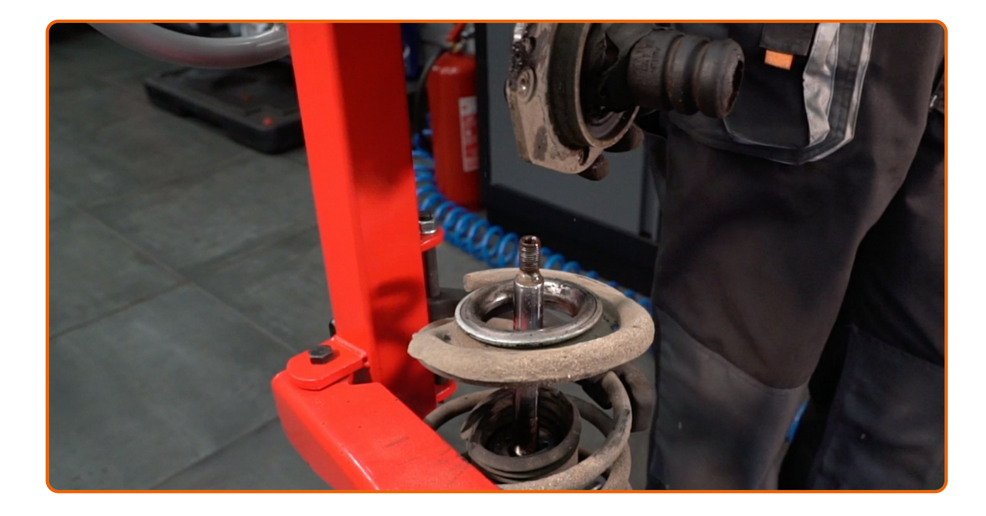
Compress the spring.

38



Remove the strut piston rod nut. Use a combination spanner #22. Use HEX No.H7. Use a ratchet wrench.

39



Remove the top strut mount.

40



Release the coil spring.

41



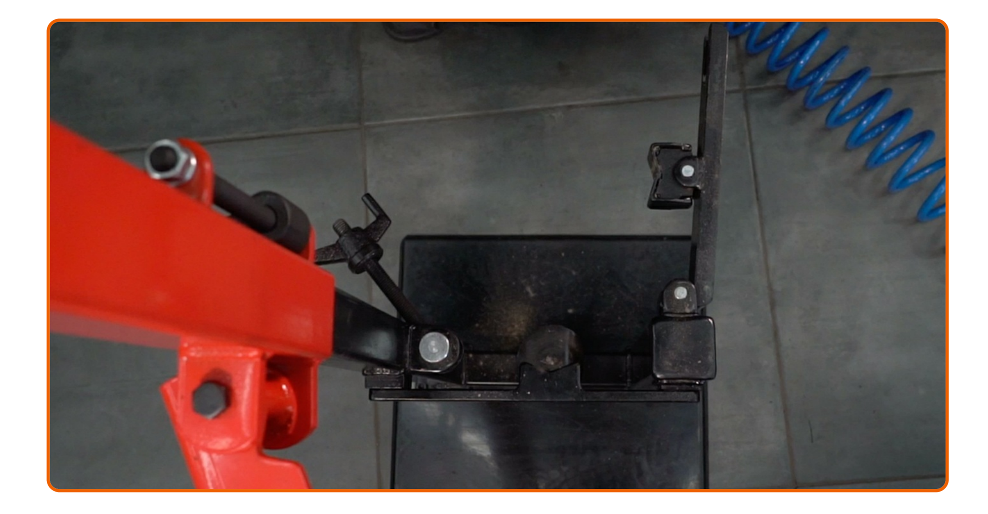
Remove the spring.

42



Remove the shock absorber dust cap and the bump stop.

43

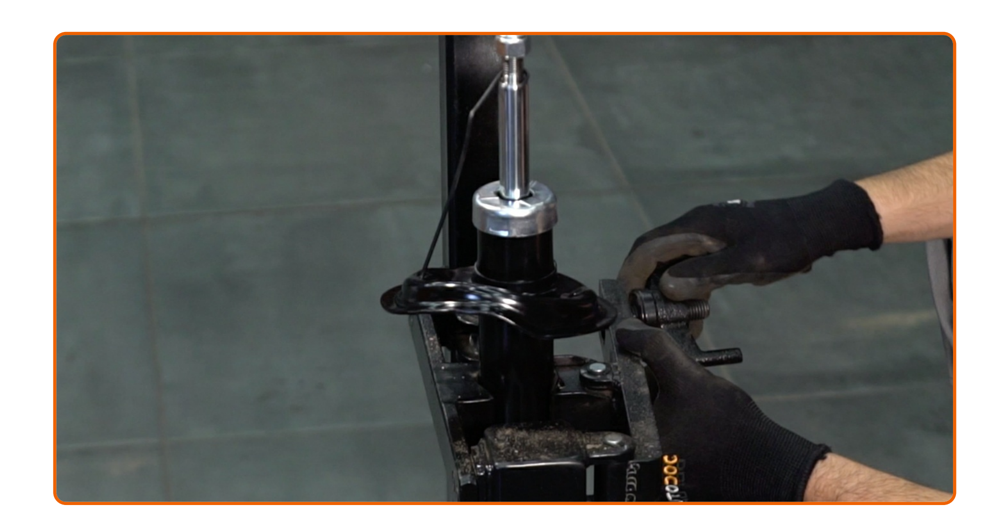


Remove the old shock absorber from the hydraulic coil spring compressor.

Replacement: suspension strut – Citroen Xsara Picasso. Tip:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

44



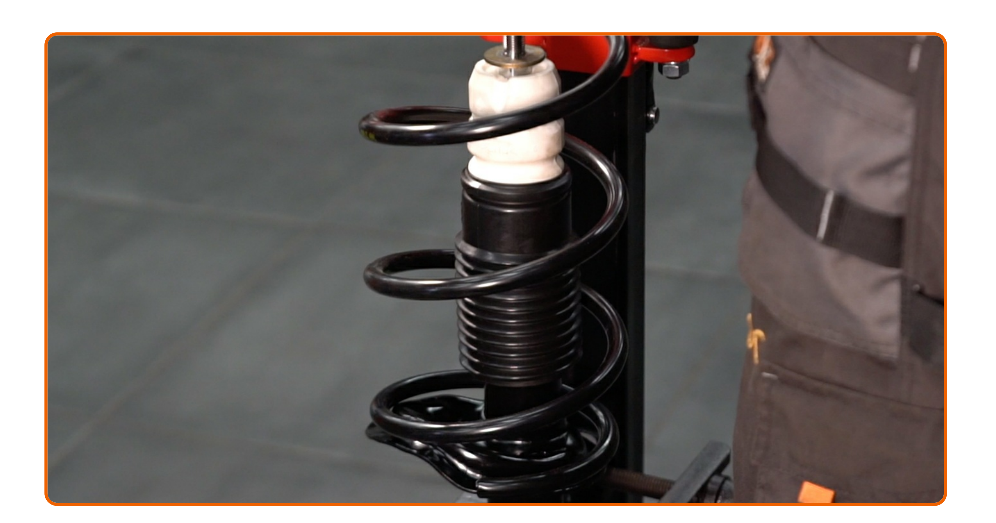
Install the new shock absorber on the hydraulic coil spring compressor.

45



Install the dust sleeve and the bump stop on the new shock absorber.

46



Install the spring on the shock absorber.

47

Compress the spring.

48



Install the upper strut mount and the strut mount bearing.

49

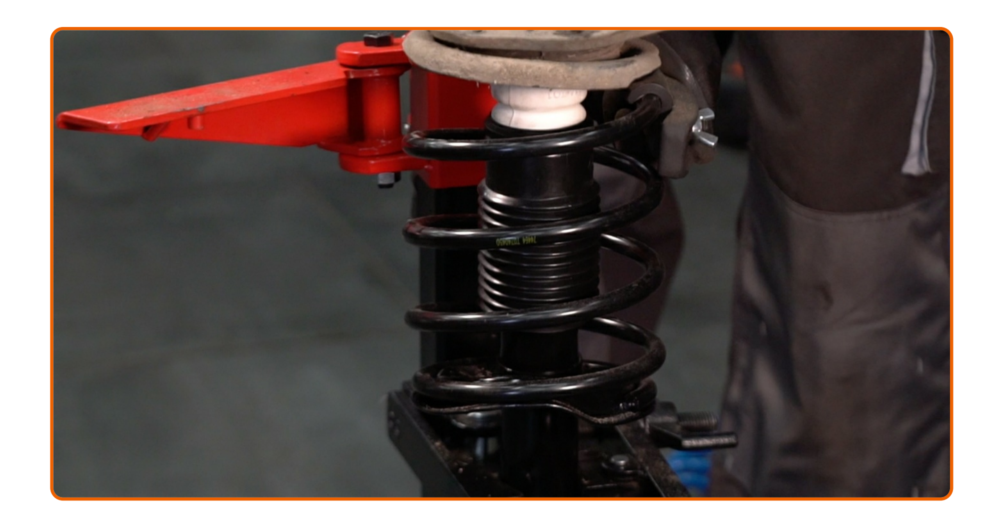


Tighten the shock strut piston rod nut. Use a drive socket #22. Use HEX No.H7. Use a torque wrench. Tighten it to 60 Nm torque.

Replacement: suspension strut – Citroen Xsara Picasso. AUTODOC experts recommend:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

50



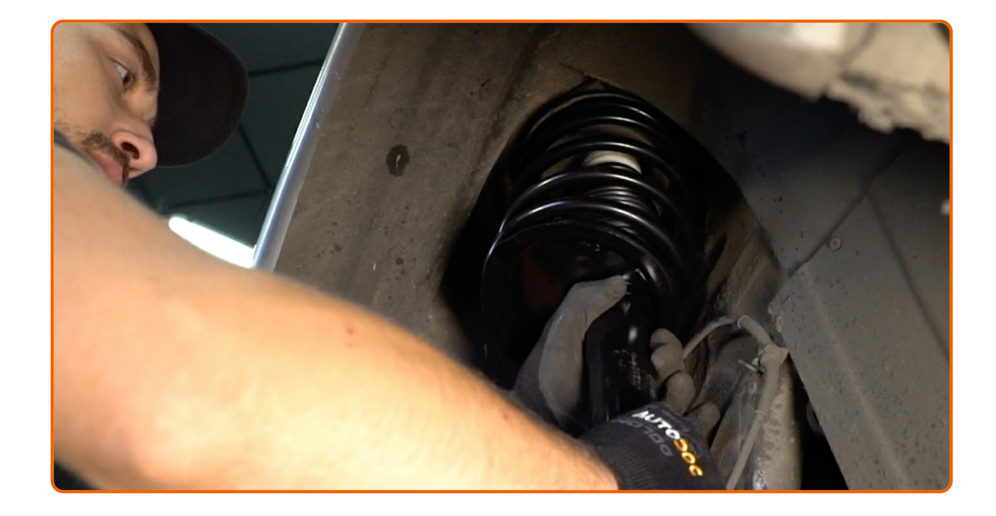
Decompress the spring.

51



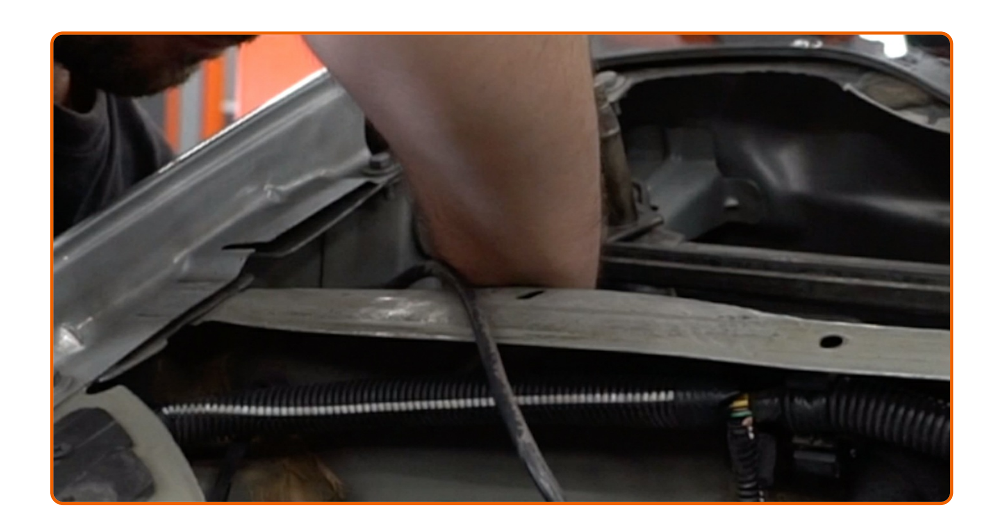
Remove the assembled shock strut.

52



Install the shock strut into the wheel arch.

53



Screw the top fastening of the shock strut mount. Do not tighten it.

AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts. Citroen Xsara Picasso

54



Fix the shock absorber strut on the steering knuckle.

55



Install the fastening bolt. Use a hammer.

56



Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #16.

57



Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.

58



Remove the support from under the steering knuckle.

AUTODOC recommends:

- Replacement: suspension strut – Citroen Xsara Picasso. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

59



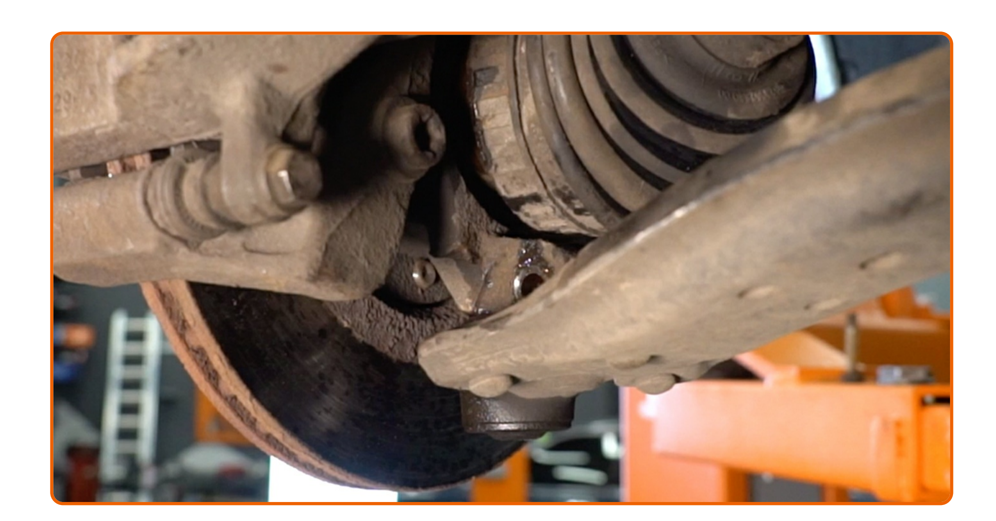
Install the drive shaft.

60



Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

61



Connect the ball joint to the steering knuckle.

62



Install the fastening bolt. Use a hammer.

63



Tighten the ball joint fastener. Use a drive socket #17. Use a combination spanner #17. Use a torque wrench. Tighten it to 52 Nm torque.

64



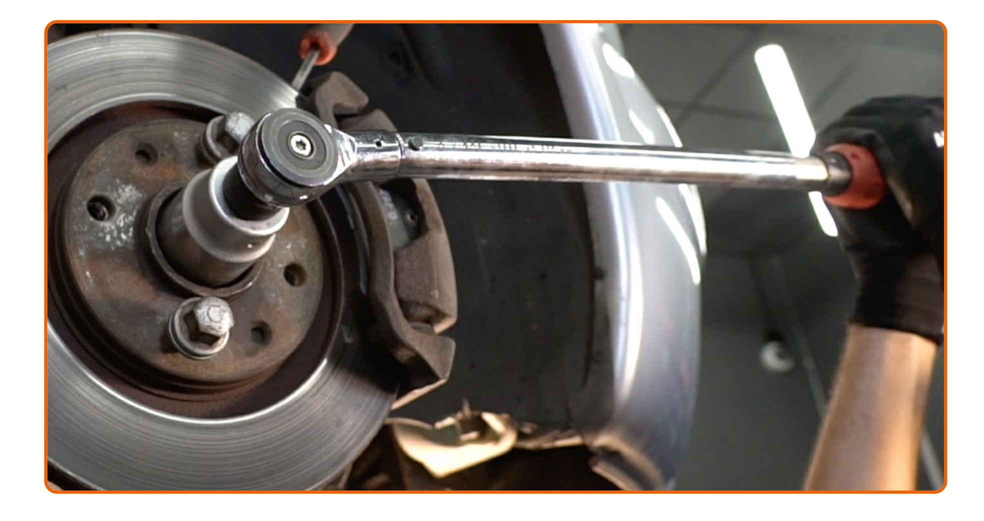
Install the transverse stabilizer link.

65



Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 60 Nm torque.

66



Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 165 Nm torque.

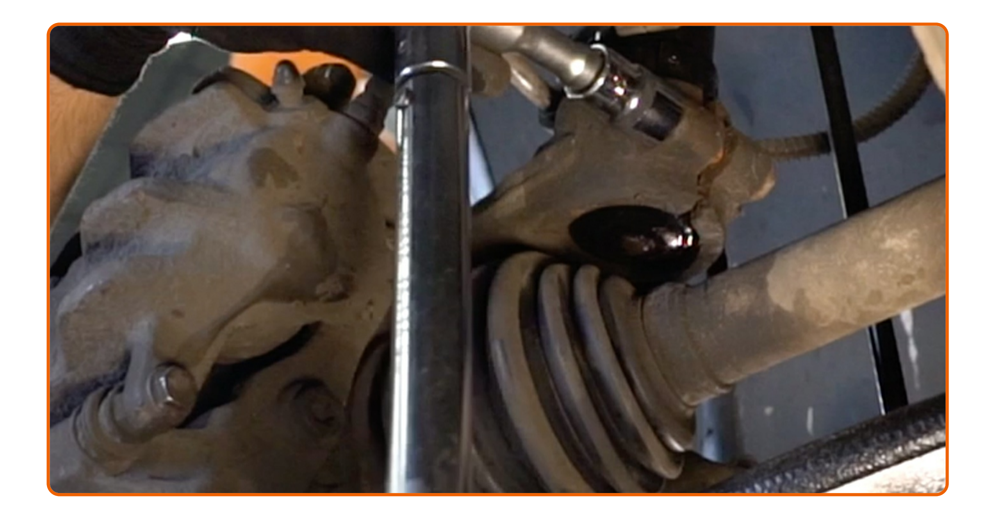
67



Install the axle nut cotter pin. Use a crowbar.

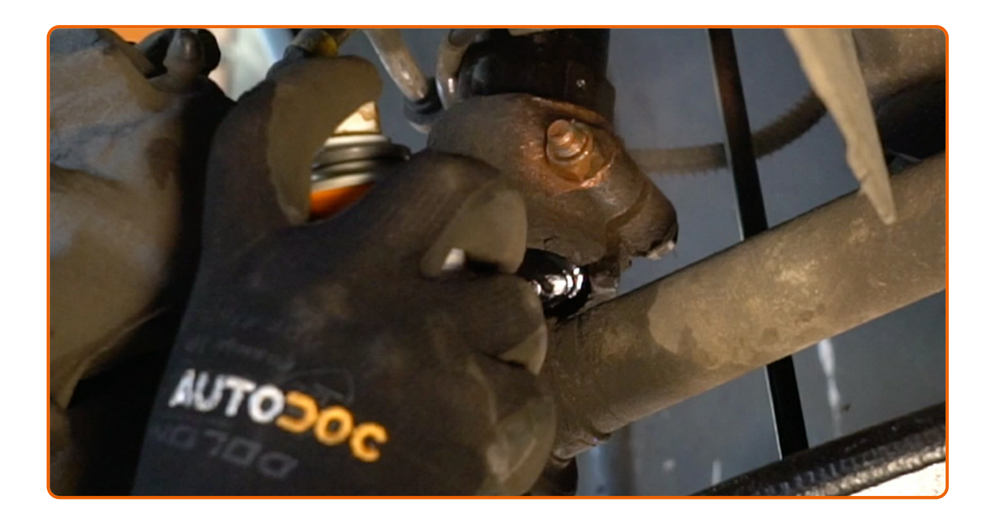


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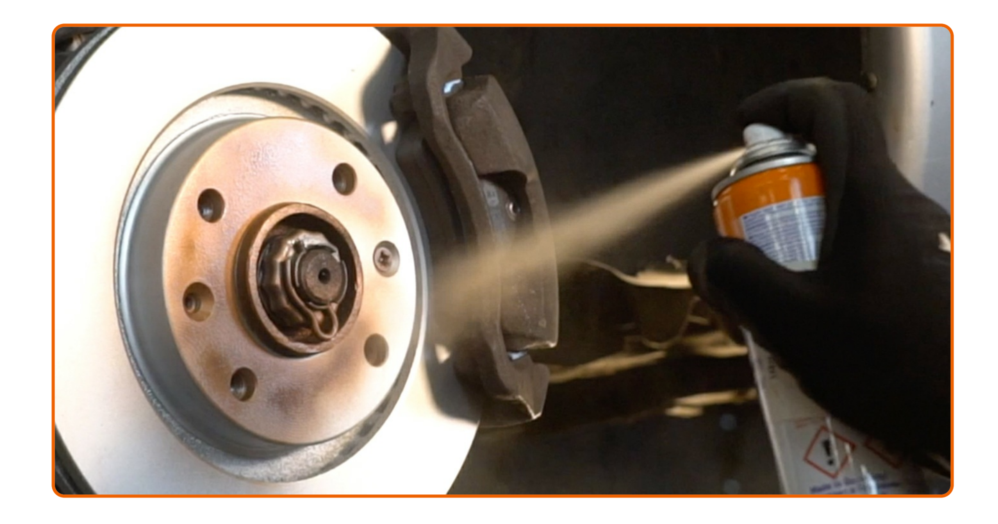
Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #16. Use a torque wrench. Tighten it to 105 Nm torque.

69



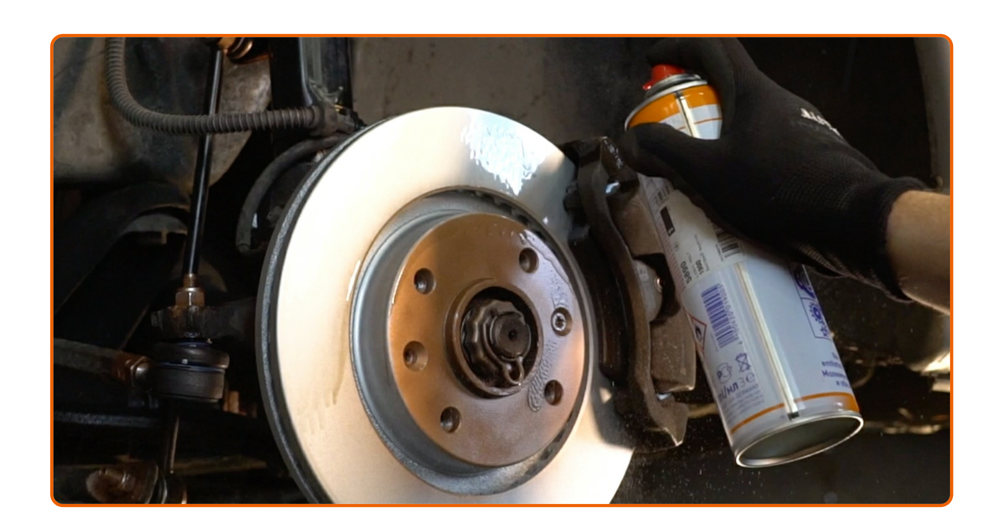
Treat the shock strut fasteners. Treat all joints of the arm. Use copper grease.

70



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

71



Clean the brake disk surface. Use a brake cleaner.

Replacement: suspension strut – Citroen Xsara Picasso. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

72



Install the wheel.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Citroen Xsara Picasso

73



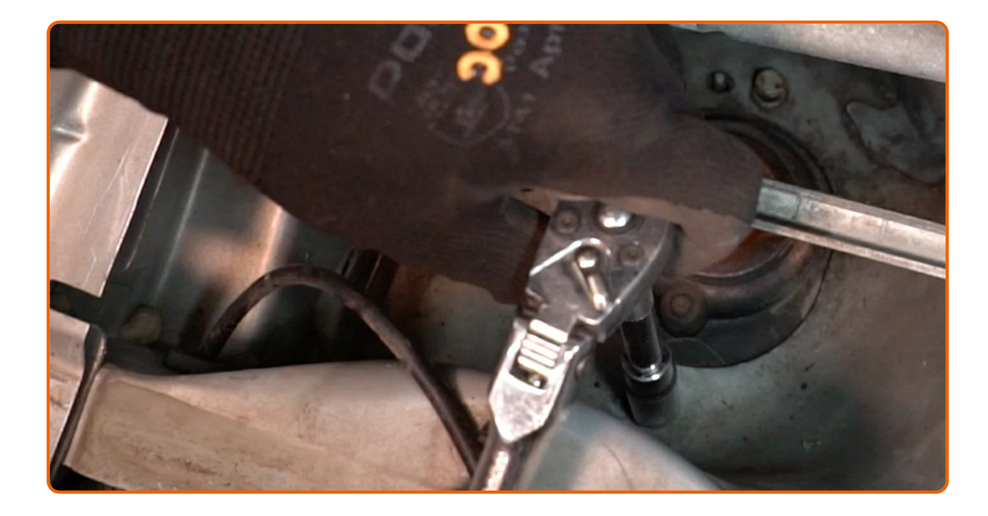
Screw in the wheel bolts. Use wheel impact socket #19.

74



Lower the car.

75



Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #14. Use a torque wrench. Tighten it to 50 nm torque.

76



Install and secure the cowl grille.

77



Attach the retainers of the upper part of the microfilter housing.

78



Reinstall the wiper arms.

79

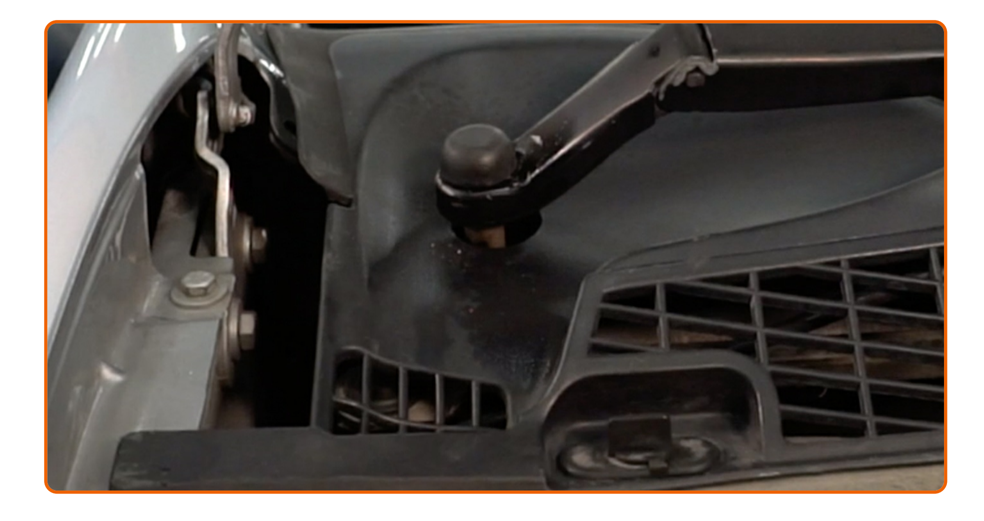


Tighten the fasteners of the wiper arms. Use a drive socket #16. Use a torque wrench. Tighten it to 22 Nm torque.

Replacement: suspension strut – Citroen Xsara Picasso. Tip from AUTODOC experts:

- Make sure not to mix up the wiper arms on the driver's and passenger's sides.

80



Install the nut covers of the windscreen wiper arms.

81



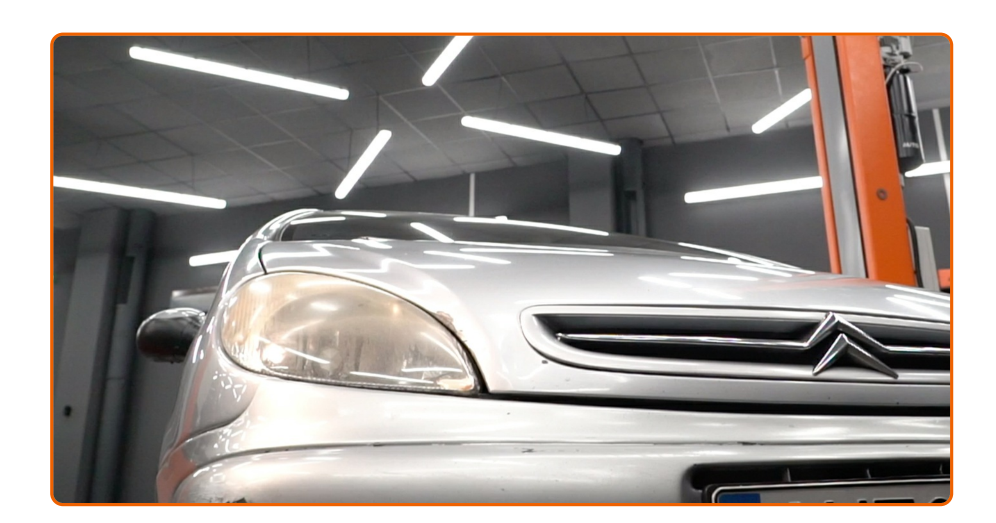
Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 120 Nm torque.

82



Remove the fender protection cover.

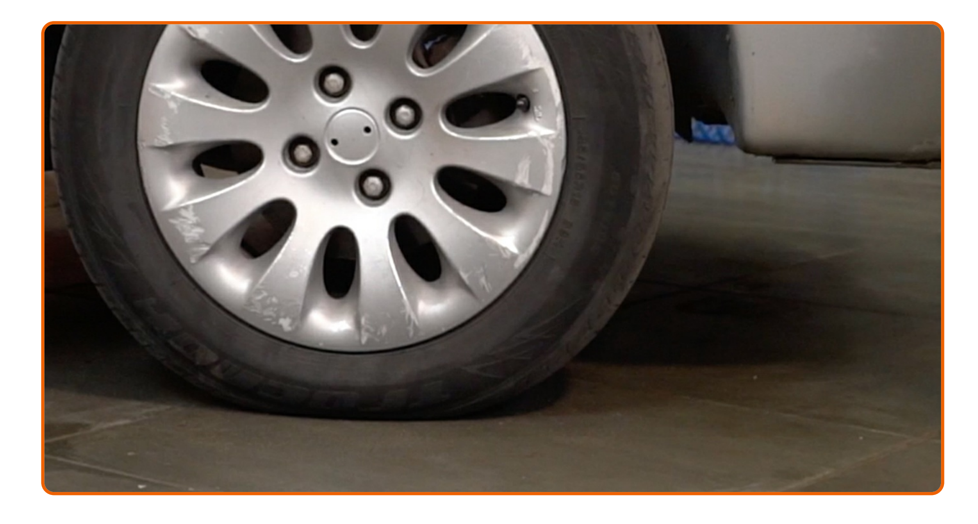
83



Close the hood.



84



Remove the jacks and chocks.

DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES NO

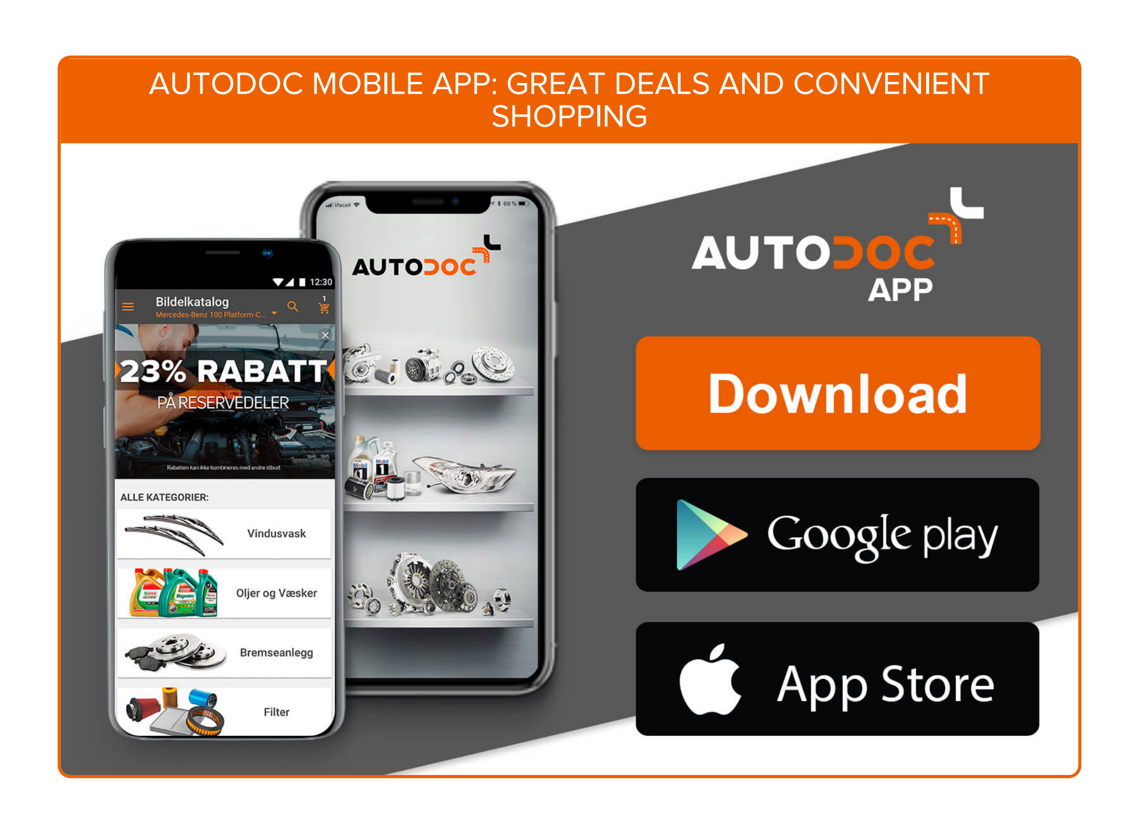


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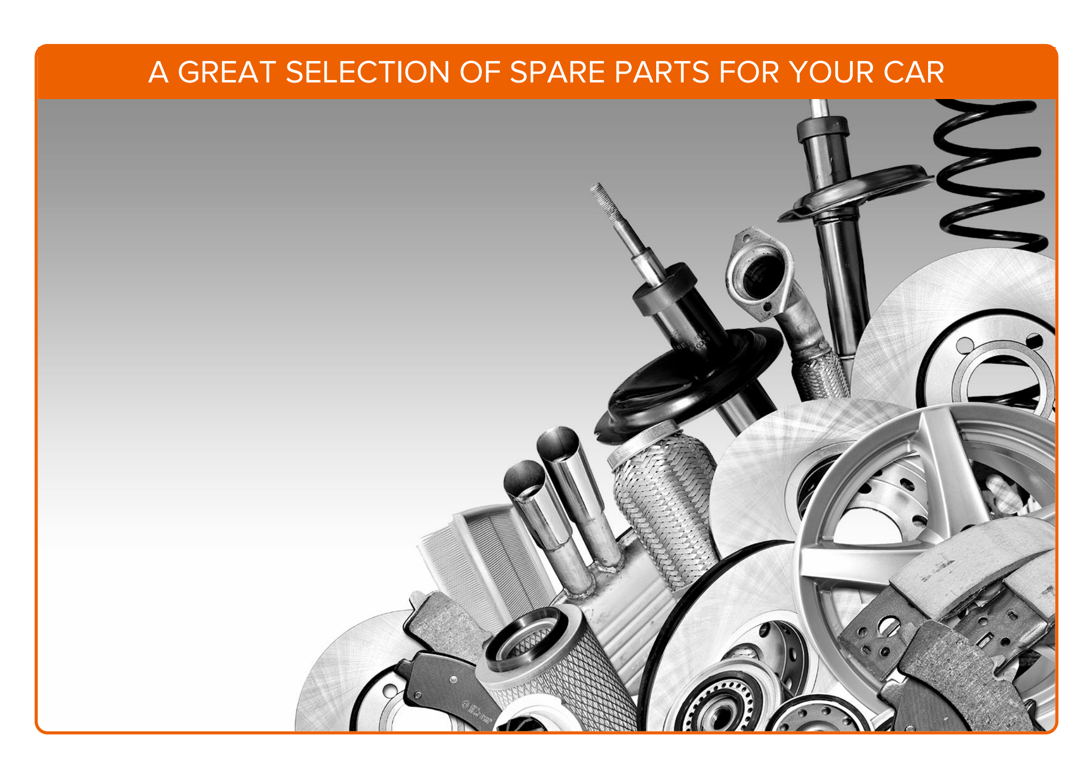


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